

(19)



Europäisches Patentamt

European Patent Office

Office eur péen des brevets



(11)

EP 0 773 288 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
09.07.1997 Bulletin 1997/28

(51) Int. Cl.<sup>6</sup>: C12N 15/00, A01K 67/027,  
C12N 15/90, C12N 5/10,  
C07K 16/00, C12N 15/08,  
C12N 15/06

(43) Date of publication A2:  
14.05.1997 Bulletin 1997/20

(21) Application number: 96113839.3

(22) Date of filing: 29.08.1996

(84) Designated Contracting States:  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC  
NL PT SE

• Hanaoka, Kazunori,  
Kitasato Daigaku Rigaku-bu  
Sagamihara-shi, Kanagawa 228 (JP)

(30) Priority: 29.08.1995 JP 242340/95  
15.02.1996 JP 27940/96

• Oshimura, Mitsuo,  
Tottori Daigaku  
Yonago-shi, Tottori 683 (JP)

(71) Applicant: KIRIN BEER KABUSHIKI KAISHA  
Chuo-Ku, Tokyo 104 (JP)

• Ishida, Isao,  
Kirin Beer  
Kanazawa-ku, Yokohama-shi, Kanagawa 236  
(JP)

(72) Inventors:

• Tomizuka, Kazuma,  
Kirin Beer K.K.  
Kanazawa-ku, Yokohama-shi, Kanagawa 236  
(JP)  
• Yoshida, Hitoshi,  
Kirin Beer K.K.  
Kanazawa-ku, Yokohama-shi, Kanagawa 236  
(JP)

(74) Representative: Hansen, Bernd, Dr. Dipl.-Chem.  
et al  
Hoffmann, Eitlie & Partner,  
Patentanwälte,  
Arabellastrasse 4  
81925 München (DE)

(54) Chimeric animal and method for producing the same

(57) Chimeric non-human animals retaining foreign chromosomes or fragments thereof and expressing the genes on the foreign chromosomes or fragments, and their progenies; a method for producing the chimeric non-human animals; tissues and cells derived from the chimeric non-human animals and their progenies; hybridomas prepared by fusion of said cells with myeloma cells; pluripotent cells containing foreign chromosomes or fragments thereof; a method for producing the pluripotent cells; use of the pluripotent cells for producing chimeric non-human animals; and a method for producing a biologically active substance, which comprises expressing the gene on a foreign chromosome or a fragment in the chimeric non-human animal or its progeny, or a tissue or a cell thereof, and recovering the biologically active substance as the expression product.

EP 0 773 288 A3



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 96 11 3839

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
D,A	NATURE, vol. 362, no. 6417, 18 March 1993, pages 255-258, XP002025628 JAKOBIVITS A ET AL: "GERM-LINE TRANSMISSION AND EXPRESSION OF A HUMAN-DERIVED YEAST ARTIFICIAL CHROMOSOME" * the whole document *	1	C12N15/00 A01K67/027 C12N15/90 C12N5/10 C07K16/00 C12N15/08 C12N15/06
A	CYTogenetics AND CELL GENETICS, vol. 60, no. 1, 1992, pages 79-80, XP000671424 NING, Y. ET AL.: "Isolation of monochromosomal hybrids following fusion of human diploid fibroblast-derived microcells with mouse A9 cells" * the whole document *	1	
A	METHODS IN MOLECULAR GENETICS, vol. 1, no. part A., 1993, pages 115-133, XP000671521 LANGSTON, A. & FOURNIER, R.E.K.: "Preparation and properties of microcell hybrids" * the whole document *	1	
-----			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
-----			A01K C12N C07K
The present search report has been drawn up for all claims			
Place of search  THE HAGUE	Date of completion of the search  16 May 1997	Examiner  Chambonnet, F	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			